

Appl. No. : 10/021,567
Filed : December 12, 2001

AMENDMENTS TO THE CLAIMS

Please cancel Claim 15 without prejudice.

Please amend Claims 17, 18, and 19 as follows.

1-10. (Cancelled)

11. (Previously presented) A terminal for an automobile power cable made of Al alloy which is consisting essentially of:

Zr: 0.03 to 0.4 wt.%,

Si: 0.05 to 0.15 wt.%, and

balance being Al and inevitable impurities;

wherein said terminal for the automobile power cable comprises a cylindrical terminal connected to a stranded wire in said automobile power cable, the stranded wire formed of a plurality of high conductive Al alloy strands each consisting essentially of:

Zr: 0.05 to 0.4 wt.%,

Fe: 0.05 to 0.2 wt %,

Si: 0.05 to 0.2 wt.%,

a total amount of one or at least two kinds selected from a group consisting of Be, Sr, Mg, Ti and V: 0.003 to 0.05 wt.%, and

balance being Al and inevitable impurities;

at least one insulation layer for covering said stranded wire and at least one shield layer formed of a braid containing more than 99 wt.% of Al;

wherein said terminal is coated over its surface adapted to be made into contact with the stranded wire of the power cable, with a Ni layer, and is formed therein with locking grooves having a depth of greater than 0.1 mm.

12. (Previously presented) A terminal for an automobile power cable made of Cu alloy which is consisting essentially of:

Zr: 10 to 40 wt.%, and

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balance being Cu and inevitable impurities;
wherein said terminal for the automobile power cable comprises a cylindrical terminal connected to a stranded wire in said automobile power cable, the stranded wire formed of a plurality of high conductive Al alloy strands each consisting essentially of:

Zr: 0.05 to 0.4 wt.%,

Fe: 0.05 to 0.2 wt %,

Si: 0.05 to 0.2 wt.%,

a total amount of one or at least two kinds selected from a group consisting of Be, Sr, Mg, Ti and V: 0.003 to 0.05 wt.%, and

balance being Al and inevitable impurities;

at least one insulation layer for covering said stranded wire and at least one shield layer formed of a braid containing more than 99 wt.% of Al;

wherein said terminal is coated over its surface adapted to be made into contact with the stranded wire of the power cable, with an Sn layer, and is formed therein with locking grooves having a depth of greater than 0.1 mm.

13. (Original) A terminal as claimed in claim 11, wherein said insulation layer in said automobile power cable is made of flame-resistant polyolefin resin.

14. (Original) A terminal as claimed in claim 12, wherein said insulation layer in said automobile power cable is made of flame-resistant polyolefin resin.

15. (Cancelled)

16. (Cancelled)

17. (Currently amended) An automobile power cable comprising:
a stranded wire formed of a plurality of highly conductive Al alloy strands each

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consisting ~~essentially~~ of:

Zr: 0.05 to 0.4 wt. %

Fe: 0.05 to 0.2 wt. %

Si: 0.05 to 0.2 wt. %

~~a total amount of Be, Sr, Mg, Ti, and V: 0.003 to 0.05 wt.%, and balance being Al and inevitable impurities;~~

at least one insulating layer for covering said stranded wire and at least one shield layer formed of a braid containing more than 99 wt.% of Al.

18. (Previously presented) An automobile power cable comprising:
a stranded wire formed of a plurality of high conductive Al alloy strands each
consisting ~~essentially~~ of:

Zr: 0.05 to 0.4 wt. %

Fe: 0.05 to 0.2 wt. %

Si: 0.05 to 0.2 wt. %

V: 0.003 to 0.05 wt.%, and balance being Al ~~and inevitable impurities;~~

at least one insulating layer for covering said stranded wire and at least one shield layer formed of a braid containing more than 99 wt.% of Al.

19. (Previously Presented) An automobile power cable comprising:
a stranded wire formed of a plurality of highly conductive Al alloy strands each
consisting essentially of:

Zr: 0.03 to 0.4 wt. %

Fe: 0.2 to 0.7 wt. %

Si: 0.2 to 0.6 wt. %

Mg: 0.35 to 1.2 wt.%,

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Cu: 0.05 to 0.4 wt.%,
and balance being Al and inevitable impurities;
at least one insulating layer for covering said stranded wire and at least one shield layer
formed of a braid containing more than 99 wt.% of Al.

20. (Cancelled)

21. (Previously presented) An automobile power cable as recited in claim ~~15~~ 17,
wherein each of said Al alloy strands is coated on its outer surface with a Ni layer.

22. (Previously presented) An automobile power cable as recited in claim 19, wherein
each of said Al alloy strands is coated on its outer surface with a Ni layer.

23. (Previously presented) An automobile power cable as recited in claim ~~15~~ 17,
wherein each of said insulation layer and said shield layer comprises a single layer, and said
stranded wire is covered with the insulation layer and the shield layer, in this order.

24. (Previously presented) An automobile power cable as recited in claim ~~15~~ 17,
wherein said insulation layer comprises two layers of a first insulation layer and a second
insulation layer while said shield layer comprises a single layer, and said stranded wire is covered
with the first insulation layer, the shield layer and the second insulation layer, in this order.

25. (Previously presented) An automobile power cable as recited in claim ~~15~~ 17,
wherein said insulation layer comprises three layers of a first insulation layer, a second insulation
layer and a third insulation layer while said shield layer comprises two layers of a first shield
layer and a second shield layer, and said stranded wire is covered with the first insulation layer,

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the first shield layer, the second insulation layer, the second shield layer and the third insulation layer, in this order.

26. (Previously presented) An automobile power cable as recited in Claim 23, wherein said insulation layer is made of flame-resistant polyolefin resin.

27. (Previously presented) An automobile power cable as recited in Claim 24, wherein said insulation layer is made of flame-resistant polyolefin resin.

28. (Previously presented) An automobile power cable as recited in Claim 25, wherein said insulation layer is made of flame-resistant polyolefin resin.

29. (New) An automobile power cable comprising:
a stranded wire formed of a plurality of highly conductive Al alloy strands each consisting essentially of:

Zr: 0.05 to 0.4 wt. %

Fe: 0.05 to 0.2 wt. %

Si: 0.05 to 0.2 wt. %

a total amount of at least one kind selected from a first group consisting of Mg and Ti, and at least one kind selected from a second group consisting of Be, Sr, V: 0.003 to 0.05 wt.%, and balance being Al and inevitable impurities;

at least one insulating layer for covering said stranded wire and at least one shield layer formed of a braid containing more than 99 wt.% of Al, and

wherein Ti is selected from said first group and V is selected from said second group, and said total amount of Ti and V being: 0.03 to 0.05 wt.%.